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Logiantis 14-4-7-5

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of transmitting information in a communication system having at least one multiple antenna system, the method comprising the step of:

transmitting over N defined time periods long term information comprising a correlation value between at least two antennas that is a function of a signal vector received on the at least two antennas arranged in a particular format and obtained from at least a portion of at least one of measured and/or calculated received information where N is an integer equal to 1 or greater.

2. (Currently Amended) The method of claim 1 where the step of transmitting long term information comprises the steps of:

receiving information over one or more communication channels of the communication system;

at least one of measuring and/or calculating channel parameters from the received information;

obtaining long term information from the at least one of measured and/or calculated channel parameters;

arranging the obtained long term information; and

transmitting the arranged long term information.

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3. (Original) The method of claim 1 where the long term information is transmitted over a feed back channel of the communication system.
4. (Currently Amended) The method of claim 1 ~~further comprising the step of transmitting~~ short term information obtained from the at least one of measured and/or calculated received information.
5. (Original) The method of claim 1 where the long term information is transmitted by a base station of a wireless communication system.
6. (Original) The method of claim 1 where the long term information is transmitted by a mobile that is part of a wireless communication system.
7. (Original) The method of claim 1 where the communication system contains at least one MIMO antenna system.
8. (Cancelled)

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9. (Currently Amended) ~~The method of claim 1 further comprising~~ A method of transmitting information in a communication system having at least one multiple antenna system, the method comprising:

transmitting over N defined time periods long term information arranged in a particular format and obtained from at least a portion of at least one of measured or calculated received information, where N is an integer equal to 1 or greater; and

transmitting short term information where the long term information is used to inform a receiver which of a finite set of codes to use to decode the transmitted short term information.

10. (Original) The method of claim 1 where the long term information comprises at least a portion of a channel parameter value.

11. (Original) The method of claim 10 where the long term information is a 2-bit code representing either a beam formed signal having a particular data rate or a MIMO signal having a particular data rate and such long term information is transmitted over a feed back channel of an EVDV communication system.

12. (Original) The method of claim 10 where the long term portion is a 3 bit code representing an SNR threshold value.

13. (Original) The method of claim 10 where the long term portion comprises 3 bits representing C/I decode values that are within a certain range.

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14. (Cancelled)

15. (Currently Amended) ~~The method of claim 14 further comprising the step of~~ A method of receiving information in a communication system having at least one multiple antenna system, the method comprising:

receiving long term information arranged in a particular format and transmitted over N defined time periods where N is an integer equal to 1 or greater;

receiving short term information related to the long term information; and

determining which of a finite set of codes to use to decode the short term information based upon the long term information.

16. (Original) The method of claim 15 further comprising the step of modifying information to be transmitted based on the received long term and related short term information.

17. (Original) The method of claim 15 where a mobile receives the long term information and related short term information.